

Title (en)

Optical data storage system with reduced particle contamination.

Title (de)

Optisches Datenspeichersystem mit reduzierter Teilchenverseuchung.

Title (fr)

Système de stockage optique de données à contamination par particules réduite.

Publication

**EP 0551190 A2 19930714 (EN)**

Application

**EP 93300075 A 19930106**

Priority

- US 81771892 A 19920107
- US 81772092 A 19920107

Abstract (en)

An optical disk drive is located in a housing (200) having a centrally pivoted door (222). An optical disk cartridge (400) is inserted into the drive and is received by a sealing member (360). The cartridge (400) and sealing member (360) divide the interior of the drive into two compartments. The first compartment (460) contains the electronics which need to be cooled and the second compartment (462) contains the optical elements (62). The door (222) and sealing member (360) allow airflow in the first compartment (460) but prevent it from reaching the second compartment (462). An airfoil (212) is positioned over the optical elements (62) in the second compartment (462) to protect them from airflow developed by the spinning disk (12) and thereby to avoid dust particle build-up on the optical elements (62). <IMAGE>

IPC 1-7

**G11B 33/14**

IPC 8 full level

**G11B 7/12** (2012.01); **G11B 33/12** (2006.01); **G11B 33/14** (2006.01)

CPC (source: EP)

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DE FR GB

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**EP 0551190 A2 19930714; EP 0551190 A3 19941026**

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